



CHARLES D. BAKER
Governor

KARYN E. POLITO
Lieutenant Governor

The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
Bureau of Health Care Safety and Quality
Medical Use of Marijuana Program

99 Chauncy Street, 11th Floor, Boston, MA 02111

MARYLOU SUDDERS
Secretary

MONICA BHAREL, MD, MPH
Commissioner

Tel: 617-660-5370
www.mass.gov/medicalmarijuana

(Proposed – Not Final)

Title: Protocol for Sampling and Analysis of Finished Medical Marijuana Products and Marijuana-Infused Products for Massachusetts Registered Medical Marijuana Dispensaries

Exhibit 2.
Contaminants of Concern and Testing Requirements for Medical Marijuana Products

Production Stage/Product	Contaminants of Concern	Required Testing
Cultivation [see <i>Protocol for Sampling and Analysis of Environmental Media for Massachusetts Registered Medical Marijuana Dispensaries</i>]	<ul style="list-style-type: none">• Non-organic pesticide residues, metals, and other organic chemicals (e.g., PCBs) taken up by plants from soil/growing media• Non-organic pesticides, metals, and other organic chemicals taken up by plants from water source• Non-organic pesticides applied to plants in noncompliance• Unidentified non-organic pesticides, metals, and other chemicals in non-pesticide agricultural or hydroponic products• Fungi/microbes growing on plants or equipment	<ul style="list-style-type: none">• Test soil or other solid media for pesticides, metals, and other organic chemicals (e.g., PCBs)• Test water sources for pesticides, metals, and bacteriological contaminants• No fungi/mycotoxin testing

Protocol for Sampling and Analysis of Finished Medical Marijuana Products and Marijuana-Infused Products for Massachusetts Registered Medical Marijuana Dispensaries

Production Stage/Product	Contaminants of Concern	Required Testing
Finished Plant Material	<ul style="list-style-type: none"> • Contaminants remaining from cultivation • Fungal/microbial growth during finishing 	<p>All Production Batches:</p> <ul style="list-style-type: none"> • Pesticides and plant growth regulators • Metals <p>Only Production Batches to be Dispensed as Medical Marijuana Product:</p> <ul style="list-style-type: none"> • Bacteria/fungi/mycotoxins • Cannabinoid profile
Cannabis Resin	<ul style="list-style-type: none"> • Contaminants remaining from cultivation • Fungal/microbial growth during production 	<p>All Production Batches:</p> <ul style="list-style-type: none"> • Metals <p>Only Production Batches to be Dispensed as Medical Marijuana Product:</p> <ul style="list-style-type: none"> • Bacteria/fungi/mycotoxins • Cannabinoid profile
Cannabis Concentrates	<ul style="list-style-type: none"> • Contaminants remaining from cultivation • Solvents used to extract oil • Fungal/microbial growth during production 	<p>All Production Batches:</p> <ul style="list-style-type: none"> • Solvents • Metals <p>Only Production Batches to be Dispensed as Medical Marijuana Product:</p> <ul style="list-style-type: none"> • Bacteria/fungi/mycotoxins • Cannabinoid profile
MIPs	<ul style="list-style-type: none"> • Contaminants in finished marijuana ingredients • Fungal/microbial growth during production 	<p>All Production Batches:</p> <ul style="list-style-type: none"> • Bacteria/fungi/mycotoxins • Cannabinoid profile